

#### ABSTRACT

Tungsten trioxide hydrate ( $\text{WO}_3 \cdot \text{H}_2\text{O}$ ) was prepared from a precursor solution of ammonium paratungstate in concentrated aqueous hydrochloric acid. The precursor solution was rapidly added to water, resulting in the crash precipitation of a yellow white powder identified as  $\text{WO}_3 \cdot \text{H}_2\text{O}$  nanosized platelets by x-ray diffraction and scanning electron microscopy. Annealing of the powder at  $200^\circ\text{C}$  provided cubic phase  $\text{WO}_3$  nanopowder, and at  $400^\circ\text{C}$  provided  $\text{WO}_3$  nanopowder as a mixture of monoclinic and orthorhombic phases.